

| ITU Region 1 allocations and footnotes  | South African allocations and footnotes   | Typical Applications  | Notes and Comments |
|---|---|---|--------------------|
| <p><b>400.05-400.15 MHz</b></p> <p>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)</p> <p>5.261 5.262</p>  | <p><b>400.05-400.15 MHz</b></p> <p>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)</p> <p>5.261</p>  |   |                    |
| <p><b>400.15-401 MHz</b></p> <p>METEOROLOGICAL AIDS</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209</p> <p>SPACE RESEARCH (space-to-Earth) 5.263</p> <p>Space operation (space-to-Earth)</p> <p>5.262 5.264</p> | <p><b>400.15-401 MHz</b></p> <p>METEOROLOGICAL AIDS</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209</p> <p>SPACE RESEARCH (space-to-Earth) 5.263</p> <p>Space operation (space-to-Earth)</p> <p>5.264</p> | <p>Radiosondes</p>  |                    |
| <p><b>401-402 MHz</b></p> <p>METEOROLOGICAL AIDS</p> <p>SPACE OPERATION (space-to-Earth)</p>  | <p><b>401-402 MHz</b></p> <p>METEOROLOGICAL AIDS</p> <p>SPACE OPERATION (space-to-Earth)</p>  | <p>Radiosonde</p> <p>Data uplink to Geostationary Satellite orbit</p> |                    |

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| EARTH EXPLORATION-SATELLITE (Earth-to-space)<br><br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br>Fixed<br><br>Mobile except aeronautical mobile  |  |   |   |
| <b>402-403 MHz</b><br><br>METEOROLOGICAL AIDS<br><br>EARTH EXPLORATION-SATELLITE (Earth-to-space)<br><br>METEOROLOGICAL-SATELLITE (Earth-to-space)<br><br>Fixed<br><br>Mobile except aeronautical mobile | <b>402-403 MHz</b><br><br>METEOROLOGICAL AIDS<br><br><br><br><br><br><br><br><br><br>Mobile except aeronautical mobile | Radiosonde<br><br><br><br><br><br><br><br><br><br>Medical implants (402 – 405 MHz)<br>Various SRD's (402 – 406 MHz)<br>SRDs – ultra low power active medical implants | Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).<br><br><br><br><br><br><br><br><br><br>SRDs – see ITU-R Rec. SM.1896 and Rec. RS.1346 |
| <b>403-406 MHz</b><br><br>METEOROLOGICAL AIDS<br>Fixed<br>Mobile except aeronautical mobile<br><br><br><b>5.265</b>  | <b>403-406 MHz</b><br><br>METEOROLOGICAL AIDS<br><br>Mobile except aeronautical mobile<br><br><br>5.265                | Radiosonde<br><br><br>Medical implants (402 – 405 MHz)<br>Various SRD's (402 – 406 MHz)   | Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).   |

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| <p><b>406-406.1 MHz</b></p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.265 5.266 5.267</p>                               | <p><b>406-406.1 MHz</b></p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.265 5.266 5.267</p>                               | <p>COSPAS – SARSAT: Emergency Position Indicating Radio Beacon (EPIRB)</p> <p>Low power satellite EPIRBs (distress and safety purposes)</p>  | <p>Public Locator Beacon</p> <p>ITU RR Articles 32 and 34 and Appendix 15 applies</p>  |
| <p><b>406.1-410 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>RADIO ASTRONOMY</p> <p>5.149 5.265</p> | <p><b>406.1-410 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>RADIO ASTRONOMY</p> <p>5.149 5.265</p> | <p>Mobile MTX (407.625 – 410 MHz)</p> <p>Government use for public safety</p> <p>Fixed Links (406.1 – 407.625 MHz)</p> <p>Fixed Links (407.625 – 410 MHz)</p> <p>Mobile MTX (406.1 – 407.625 MHz)</p> <p>Mobile MTX (407.625 – 410 MHz)</p> <p>PMR and/or PAMR</p> <p>PPDR</p> | <p>Paired with 416.1 – 417.625 MHz</p> <p>Paired with 417.625 – 420 MHz</p> <p>Paired with 416.1 – 417.625 MHz</p> <p>Paired with 417.625 – 420 MHz (Government use for public safety)</p> <p>The use of this band for PPDR to be studied.</p> |
| <p><b>410-420 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p>   | <p><b>410-420 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p>   | <p>Mobile MTX (410 – 413 MHz)</p> <p>Government Services</p> <p>Mobile MTX (410 – 413 MHz)</p> <p>Mobile MTX Digital Trunking (410 – 413 MHz)</p>  | <p>Paired with 420 – 423 MHz (Government Services)</p> <p>Paired with 420 – 423 MHz</p> <p>Paired with 423-423.7625 MHz</p> <p>Paired with 423.7625 – 426.1 MHz</p>  |

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| SPACE RESEARCH (space-to-space)<br><br>5.268   | SPACE RESEARCH (space-to-space)<br><br>5.268  | Mobile Data MTX (413-413.7625 MHz)<br>Digital Trunking MTX (413.7625 – 416.1 MHz)<br>Mobile BTX (416.1 – 417.625 MHz)<br>PMR and/or PAMR<br>PPDR   | Paired with 406.1 – 407.625 MHz<br>The use of this band for PPDR to be studied.   |
| <b>420-430 MHz</b><br><br>FIXED<br><br>MOBILE except aeronautical mobile<br><br>Radiolocation<br><br>5.269 5.270 5.271 | <b>420-430 MHz</b><br><br>FIXED<br><br>MOBILE except aeronautical mobile<br><br>Radiolocation | Single Frequency Links (426.1 – 430 MHz)<br><br>Digital Trunked Mobile BTX (420 – 423 MHz)<br>Mobile Data BTX (423 – 423.7625 MHz)<br>Digital Trunking BTX (423.7625 – 426.1 MHz)<br>PMR and/or PAMR<br>PPDR | Frequencies will only be assigned for SF links where migration above 1 GHz would be impractical<br>Paired with 410 - 413 MHz (Government use)<br>Paired with 413 – 413.7625 MHz<br>Paired with 413.7626 – 416.1 MHz<br>The use of this band for PPDR to be studied. |
| <b>430-432 MHz</b><br><br>AMATEUR RADIOLOCATION<br><br>5.271 5.274 5.275 5.276 5.277                                   | <b>430-432 MHz</b><br><br>AMATEUR NF8 RADIOLOCATION   | Amateur  | Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).   |

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| <p><b>432-438 MHz</b></p> <p>AMATEUR</p> <p>RADIOLOCATION<br/>Earth exploration-satellite (active)<br/>5.279A</p> <p>5.138 5.271 5.276 5.277 5.280<br/>5.281 5.282</p> | <p><b>432-438 MHz</b></p> <p>AMATEUR NF8</p> <p>Amateur satellite (435 – 438 MHz)<br/>RADIOLOCATION<br/>Earth exploration-satellite (active)<br/>5.279A</p> <p>5.138 5.282</p> | <p>Non Specific SRD including<br/>RFID (433.05 – 434.79 MHz)</p> <p>Non-Specific SRD's (433.05 –<br/>434.79 MHz)<br/>ISM applications<br/>Amateur (432-438 MHz)<br/>Amateur-satellite (435-438 MHz)<br/>ISM (433.0-434.79 MHz)</p> | <p>Radio Frequency Spectrum<br/>Regulations (Annex B) (GG.<br/>No.38641, 30 March 2015).</p> <p>Radio Frequency Spectrum<br/>Regulations (Annex B) (GG.<br/>No.38641, 30 March 2015).<br/>Conditions for amateur satellite<br/>service is given in 5.282</p> |
| <p><b>438-440 MHz</b></p> <p>AMATEUR<br/>RADIOLOCATION</p> <p>5.271 5.274 5.275 5.276 5.277<br/>5.283</p>  | <p><b>438-440 MHz</b></p> <p>AMATEUR NF8</p>   | <p>Amateur</p>   | <p>Radio Frequency Spectrum<br/>Regulations (Annex B) (GG.<br/>No.38641, 30 March 2015).</p>   |
| <p><b>440-450 MHz</b></p> <p>FIXED</p>   | <p><b>440-450 MHz</b></p> <p>FIXED</p>   | <p>Telemetry / Data BTX (440 – 441<br/>MHz)</p>  | <p>Paired with 445 – 446 MHz (MTX)<br/>Channels 440.0125, 440.3625,<br/>445.0125 and 445.3625 MHz are<br/>used for Agricultural Telemetry.<br/>Paired with 440 – 441 MHz (BTX)</p>   |

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| <p>MOBILE except aeronautical mobile</p> <p>Radiolocation</p> <p>5.269 5.270 5.271 5.284 5.285<br/>5.286</p> | <p>MOBILE except aeronautical mobile</p> <p>5.286</p>         | <p>Telemetry / Data MTX (445 – 446 MHz)<br/>Single Frequency Mobile (441 – 441.1 MHz)</p> <p>Mobile BTX (441.1 – 445 MHz)<br/>PMR 446 (446 – 446.1 MHz)</p> <p>Mobile 446.1 – 450 MHz<br/>PMR and/or PAMR<br/>PPDR<br/>PMR446 (446-446.1 MHz)<br/>FIXED (telemetry, dual frequency alarm systems)</p> | <p>Channels 440 - 440.100 MHz and 445 – 445.1 MHz are used as simplex. Channels 440.275 MHz, 440.2875 MHz, 445.2750 MHz, 445.2875 MHz, 440.375 MHz and 445.375 MHz are roving simplex channels.<br/>Paired with 446.1 – 450 MHz (MTX)<br/>8 channels -<br/>Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).</p> <p>Paired with 441.1 – 445 MHz<br/>The use of this band for PPDR to be studied.<br/>PMR446-ERC/DEC/ (98)25</p> |
| <p><b>450-455 MHz</b></p> <p>FIXED<br/>MOBILE 5.286AA</p>  | <p><b>450-455 MHz</b></p> <p>FIXED<br/>MOBILE 5.286AA NF9</p> | <p>Fixed links (450 – 453 MHz)<br/>Single Frequency Mobile (453 – 454 MHz)<br/>Government Services<br/>Paging (454 – 454.425 MHz)<br/>Trunked Mobile BTX (454.425 – 460 MHz)<br/>IMT450 (450 – 470 MHz)<br/>Fixed links (PTP)</p>   | <p>Paired with 460 – 463 MHz<br/>Recommendation ITU-R M.1036</p> <p>Paired with 464.425 – 470 MHz<br/>This band is currently used for a variety of fixed and mobile systems in the various SADC countries.<br/>This band is also identified for IMT (Res.224 applies).</p>  |

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| 5.209 5.271 5.286 5.286A 5.286B<br>5.286C 5.286D 5.286E   | 5.209 5.286 5.286A  | IMT (450-470 MHz)<br>PMR and/or PAMR  |  |
| <b>455-456 MHz</b><br><br>FIXED<br>MOBILE 5.286AA<br><br>5.209 5.271 5.286A 5.286B 5.286C<br>5.286E | <b>455-456 MHz</b><br><br>FIXED<br>MOBILE 5.286AA NF9<br><br>5.209 5.286A       | Trunked mobile BTX (454.425 – 460 MHz)<br>IMT450 (450 – 470 MHz)<br>Government Services | Paired with 464.425 – 470 MHz<br>Recommendation ITU-R M.1036   |
| <b>456-459 MHz</b><br><br>FIXED<br>MOBILE 5.286AA<br><br>5.271 5.287 5.288                          | <b>456-459 MHz</b><br><br>FIXED<br>MOBILE 5.286AA NF9<br><br>5.287              | Trunked mobile BTX (454.425 – 460 MHz)<br>IMT450 (450 – 470 MHz)<br>Government Services | Paired with 464.425 – 470 MHz<br>Recommendation ITU-R M.1036   |
| <b>459-460 MHz</b><br><br>FIXED<br>MOBILE 5.286AA<br><br>5.209 5.271 5.286A 5.286B 5.286C<br>5.286E | <b>459-460 MHz</b><br><br>FIXED<br>MOBILE 5.286AA NF9<br><br>5.209 5.271 5.286A | Trunked Mobile BTX 454.425 – 460 MHz<br>IMT450 (450 – 470 MHz)<br>Government Services   | Paired with 464.425 – 470 MHz<br>Radio Frequency Assignment Plan (GG N. 38640) as amended 30 March 2015<br>Recommendation ITU-R M.1036 |

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| <p><b>460-470 MHz</b></p> <p>FIXED<br/>MOBILE 5.286AA</p> <p>Meteorological-satellite (space-to-Earth)</p> <p>5.287 5.288 5.289 5.290</p> | <p><b>460-470 MHz</b></p> <p>FIXED<br/>MOBILE 5.286AA NF9</p> <p>5.287 5.289</p> | <p>Fixed Links (460 – 463 MHz)</p> <p>Single Frequency Mobile (463.025 – 463.975 MHz)</p> <p>Low Power Mobile Radio (463.975 MHz, 464.125 MHz, 464.175 MHz, 464.325 MHz, 464.375 MHz)</p> <p>Single Frequency Mobile (464.375 – 464.425 MHz)</p> <p>Trunked Mobile MTX (464.425 – 470 MHz)</p> <p>IMT450 (450 – 470 MHz)</p> <p>Security Systems (464.5375 MHz)</p> <p>Non-specific SRDs (464.5 – 464.5875 MHz)</p> <p>Government Services</p> | <p>Paired with 450 – 453 MHz</p> <p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Recommendation ITU-R M.1036</p> <p>Paired with 454.425 – 460 MHz</p> <p>International Mobile Telecommunication Roadmap (GG No.38213) 14 November 2014. Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p> |
| <p><b>470-694 MHz</b></p> <p>BROADCASTING</p>   | <p><b>470-694 MHz</b></p> <p>BROADCASTING</p> <p>RADIO ASTRONOMY 5.304</p>       | <p>DTT Broadcasting (470-694 MHz)</p> <p>Radio Astronomy (606 – 614 MHz)</p>   | <p>Broadcasting Allotments in accordance with GE89 and GE06. Broadcast assignments in accordance with the latest version of the Terrestrial Broadcasting Frequency Plan as amended (GG No.36321) 02 April 2013. Band IV/V Analogue television is to be migrated to digital television and</p>  |



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| <p>5.149 5.291A 5.294 5.296 5.300<br/>5.304 5.306 5.311A 5.312</p>  | <p>5.149 5.311A</p>  | <p>SAP/SAB Applications</p>   | <p>ensure harmonisation with SADC. The use of ‘White Spaces’ in this band is under consideration (subject to Non Interference Non Protection basis to users under a primary allocation).470 - 606 MHz, max. 50 mW ERP<br/>606 - 614 MHz, max. 50 mW ERP</p>  |
| <p><b>694-790 MHz</b></p> <p>MOBILE except aeronautical mobile 5.312A 5.317A</p> <p>BROADCASTING<br/>5.300 5.311A 5.312</p> | <p><b>694-790 MHz</b></p> <p>MOBILE except aeronautical mobile 5.312A 5.317A NF9</p> <p>BROADCASTING<br/>5.300 5.311A 5.312<br/>NF8A</p> | <p>IMT700 (694 – 790 MHz)</p> | <p>International Mobile Telecommunication Roadmap (GG No.38213) 14 November 2014. Radio Frequency Assignment Plan (GG N. 38640) as amended 30 March 2015.<br/>IMT in accordance with ITU-R Recommendation M.2090 and Resolution <b>760 (WRC-15)</b> applies Recommendation ITU-R M.1036<br/>Consideration of the future spectrum needs of Broadband Public Protection and Disaster Relief (PPDR) in the range 694-790 MHz as described in the most</p> |

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| 5.300 5.311A 5.312  | 5.311A   |  | recent ITU-R M.2015, while taking into account studies called for by Resolution 646 (WRC15) for technical and operational measures.  |
| <p><b>790-862 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile 5.316B 5.317A</p> <p>BROADCASTING<br/>5.312 5.319</p> | <p><b>790-862 MHz</b></p> <p>FIXED</p> <p>MOBILE except aeronautical mobile 5.316B 5.317A NF9</p> <p>BROADCASTING<br/>5.312 5.319<br/>NF8A</p> | <p>Fixed Links (856 – 864.1 MHz)</p> <p>IMT800 BTX (791 – 821 MHz)</p> <p>Wireless Access (827.775 – 832.695 MHz)</p> <p>IMT800 MTX (832 – 862 MHz)</p> <p>Television Broadcasting (470 – 854 MHz)</p> | <p>International Mobile Telecommunication Roadmap (GG No.38213) 14 November 2014.</p> <p>Radio Frequency Assignment Plan (GG N. 38640) as amended 30 March 2015. Recommendation ITU-R M.1036</p> <p>The fixed links have to be migrated along with the broadcasting service in line with Radio Frequency Migration Plan.</p> <p>Band IV/V analogue television is to be migrated to digital television and ensure harmonisation with SADC.</p> <p>WRC-07, WRC-12 and WRC-15 allocated this band to Mobile service except aeronautical mobile and identified it for IMT.</p> |

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|   |  |   | <p>Fixed links operating in this band will have to be migrated in order to accommodate IMT.</p> <p>Consideration of the future spectrum needs of Broadband Public Protection and Disaster Relief (PPDR) in the range 790-862 MHz as described in the most recent ITU-R M.2015, while taking into account studies called for by Resolution 646 (WRC15) for technical and operational measures.</p> |
| <p><b>862-890 MHz</b></p> <p>FIXED<br/>MOBILE except aeronautical mobile 5.317A</p> | <p><b>862-890 MHz</b></p> <p>FIXED<br/>MOBILE except aeronautical mobile 5.317A NF10</p> | <p>Fixed Links (856 – 864.1 MHz)<br/>Wireless Access (872.775 – 877.695 MHz)<br/>GSM-R (MTX) (877.695 – 880 MHz) NF10<br/>IMT900 MTX (880 – 915 MHz)<br/>Wireless Audio systems and Wireless microphones (863 – 865 MHz)<br/>CT2 cordless phones (864.1 – 868.1 MHz)<br/>FWA (864.1 – 868.1 MHz)<br/>RFID (865 – 868 MHz)<br/>Non-specific SRD and RFID (869.4 – 869.65 MHz)<br/>Non Specific SRDs (868 – 868.6 MHz, 868.7 – 869.2 MHz,</p> | <p>Paired with 868.1 – 876 MHz<br/>Paired with 827.775 – 832.695 MHz</p> <p>Paired with 921 – 925 MHz<br/>Paired with 925 – 960 MHz</p> <p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p> <p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).<br/>Recommendation ITU-R M.1036</p>                         |

